

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1.-8. (Cancelled)

9. (New) A process for the continuous preparation of a silane of the formula I



which comprises continuously reacting a silane of the formula II



with an alkene of the formula III



in the presence of an iridium compound of the formula IV as catalyst



and free diene as cocatalyst, where

R^1 , R^2 , R^3 are each a monovalent Si-C-bonded, unsubstituted or halogen-substituted C_1 - C_{18} -hydrocarbon radical, a chlorine atom or a C_1 - C_{18} -alkoxy radical,

R^4 , R^5 , R^6 are each a hydrogen atom, a monovalent C_1 - C_{18} -hydrocarbon radical optionally bearing one or more F, Cl, OR, NR'_2 , CN or NCO substituents, a chlorine atom, a fluorine atom or a C_1 - C_{18} -alkoxy radical, where 2 radicals R^4 , R^5 , R^6 together with the carbon atoms to which they are bound may form a cyclic radical,

R is a hydrogen atom or a monovalent C₁-C₁₈-hydrocarbon radical and diene is a C₄-C₅₀-hydrocarbon compound optionally bearing one or more F, Cl, OR, NR₂, CN or NCO substituents and has at least two ethylenic C=C double bonds, with the reaction temperature being 30-200°C and the reaction pressure being 0.11-50.0 Mpa.

10. (New) The process of claim 9, wherein R¹, R² and R³ are C₁-C₆-alkyl radicals, C₁-C₆-alkoxy radicals, or mixtures thereof.

11. (New) The process of claim 9, wherein R⁵ and R⁶ are C₁-C₆-alkyl radicals, C₁-C₆-alkoxy radicals, or mixtures thereof.

12. (New) The process of claim 9, wherein R⁴ is selected from the group consisting of hydrogen, methyl, and ethyl.

13. (New) The process of claim 9, wherein free diene is added as cocatalyst in a concentration of from 1×10^{-6} to 1 mol%, based on the silane component of the formula II.

14. (New) The process of claim 9, wherein the reaction temperature is 60-100°C.

15. (New) The process of claim 9, wherein the catalyst of the formula IV is [(cycloocta-1c,5c-diene)IrCl]₂.

16. (New) The process of claim 15, wherein the cocatalyst is 1,5-cyclooctadiene.

17. (New) The process of claim 9, wherein the alkene of formula (III) is present in at least a stoichiometric amount relative to the silane of formula (II).

18. (New) The process of claim 9, wherein the alkene of formula (III) is present in 0.01 mol percent to 100 mol percent stoichiometric excess relative to the silane of formula (II).
19. (New) The process of claim 9, wherein reacting takes place in an aprotic solvent.
20. (New) The process of claim 19, wherein the aprotic solvent comprises silane (I).
21. (New) The process of claim 9, further comprising separating silane (I) and leaving a high boiling residue, and recycling at least a portion of the high boiling residue as catalyst to the step of reacting.
22. (New) The process of claim 9 wherein the free diene is not the same as the diene of the catalyst (IV).